

West Central Phoenix (WCP) West Grand Avenue Water Quality Assurance Revolving Fund (WQARF) Site

Boundaries:

The WCP West Grand Avenue Site (Site) is bounded approximately by Osborn Road to the north, 31st Avenue to the east, Thomas Road to the south and 35th Drive to the west.

Site Status Update:

ADEQ is finalizing the Remedial Objectives (RO) Report and the final remedial investigation (RI). A well in the Layke project area has become dry due to a drop in the groundwater elevation. Placement of a new well is essential in the finalization of the ROs. This work is being proposed to be completed by the end of December.

Community Involvement Activities:

A community advisory board (CAB) has been formed for the Site and meets on a regular basis. Details of meeting agendas and minutes for 2007 and 2008 can be viewed at <http://www.azdeq.gov/envIRON/waste/sps/reg.html>. These meetings are open to the public. An updated fact sheet can be found on the ADEQ Web site at <http://www.azdeq.gov/envIRON/waste/sps/download/phoenix/wcpega/wcpgafact.pdf>.

Site History:

1967-1990: The Layke facility is located near 33rd Avenue and Osborn Road. Layke began operations at the facility in 1967. The operations included the manufacturing of various metal parts. TCE was the primary solvent used for parts cleaning/degreasing and a vapor degreaser had been used at the facility from 1969 to approximately 1989. Used chemicals were stored in 55-gallon drums in the waste storage area or in an underground storage tank (UST) prior to disposal. At various times, it appears that the UST overflowed, causing the waste inside the tank to leak out. The UST was removed in October 1990.

1982: Volatile organic compounds (VOCs) were first detected in groundwater in the WCP area in July 1982. The City of Phoenix (COP) detected trichloroethylene (TCE) in four municipal public supply wells, COP #70, #71, #151, and #152.

1982-1989: The Arizona Department of Health Services (ADHS), Salt River Project (SRP), and the COP confirmed the presence of VOCs in the groundwater with sampling in 1983, 1985, and 1986. Groundwater from COP Wells #70 and #71 contained the highest concentrations of TCE and, therefore, were immediately shut down. Wells #151 and #152 were monitored for VOC concentrations from 1982 until 1989. As a result of sampling conducted during February of 1989,

COP elected to take both wells #151 and #152 off-line on March 7, 1989.

1987: The WCP area was designated a WQARF Priority List site.

1989-2002: Field investigation activities at the WCP West Grand Avenue Site were conducted between 1989 and 2002. The investigation indicated that the source of soil and groundwater contamination at the Site is the Layke Incorporated (Layke) facility.

1990-1997: Between 1990 and 1997, an early response action (ERA) was conducted by Layke, Inc., the current operator at the Layke Facility. In 1990, Layke excavated a waste oil underground storage tank (UST) that became contaminated with TCE. Soil samples were collected. After the tank was excavated, a soil vapor extraction (SVE) system was installed and operated from 1995 to 1997.

1995-2002: Layke operated a SVE system from March 1995 through June 1998 to remediate the contamination beneath the UST. Between 2001 and 2002, soil samples were collected by ADEQ in the area of the UST to determine the effectiveness of the SVE system in cleaning up the soils. The soil data indicated that the contamination had been effectively remediated by the SVE system. Based on this information, ADEQ granted a No Further Action (NFA) request in December 2002, pursuant to A.R.S. §49-287.01.

1997-2000: In 1997, ADEQ established the WQARF Registry which replaced the Priority List. The Site was placed on the WQARF Registry in April 1998 with a score of 17 out of a possible 120. The Site score was re-evaluated in 2000 with a revised score of 22.

2004: In February, ADEQ issued the Draft Remedial Investigation (RI) Report for the WCP West Grand Avenue Site for public comment to meet the requirements established under A.R.S. §49-287.03 and A.A.C. R18-16-406. No comments were received during the 30-day comment period. Since no comments were received on the Draft RI Report, this report will be accepted as the Final RI Report for the Site. ADEQ received a request from Layke in April 2004 to permanently shutdown the SVE system. ADEQ granted the request in a letter dated April 21, 2004.

2005: In October, ADEQ issued the Proposed Remedial Objectives (RO) Report for public comment to meet the requirements established under A.A.C. R18-16-406. No comments were received during the 30-day comment period.

Site Hydrogeology:

The Site is located within the West Salt River Valley sub-basin of the Phoenix Active Management Area (AMA). The Salt River Valley is an alluvial filled basin located in the Basin & Range physiographic province. The Site is underlain by primarily sandy silts and silty sands with interbedded clay layers and gravelly sand zones.

Due principally to the ongoing drought, depth to groundwater has declined considerably in the past several years. In 1992, the depth to groundwater was approximately 98 feet below ground surface

(bgs); by April 2002 it was approximately 124 feet bgs measured in monitor well WCP-10. Groundwater levels in WCP-10 decreased below the well construction depth of 130 feet bgs before September 2002. Groundwater flows to the south-southwest beneath the Site at a gradient of approximately 0.003 (as of December 2001).

The Grand Canal is located along the northern edge of the Site. The Grand Canal is generally lined on the bottom and both sides in the vicinity of the Site. However, some recharge to the aquifer occurs due to infiltration from the canal.

Contaminants:

The current contaminant of concern in groundwater includes the chlorinated solvent trichloroethene (TCE). Contaminants of concern at the Site may change as new data become available.

Public Health Impact:

To date, testing in the WCP area indicates no exposure to the contamination. Sampling shows that the contaminated soils are under asphalt parking lots or asphalt-surfaced storage areas, or under the concrete floors of buildings. Contaminated drinking water wells in the area have been shut down. In addition, notices have been sent out to all known residences within the WCP area for the testing of domestic wells for contamination.

Contacts:

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Information Repositories:

Interested parties can review site information at the Information Repository at the Burton Barr Central Library (Arizona Room) located at 1221 N. Central Avenue in Phoenix (602) 262-4636. With 24 hour notice, an appointment to review related documentation is available Monday through Friday from 8:30 a.m. to 4:30 p.m., at the ADEQ Records Management Center, 1110 W. Washington Street in Phoenix, Arizona. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.